

Modern Views as to the Cause
of Frightful Accidents.

EXPLOSIONS
Modern Views as to the Causes of
Frightful Accidents.
Suggestions that Throw Light on the
Terrible Disasters Like that in
Columbia.
A report by W. N. and J. B. Atkins
of coal mines for the north of
recently published, is a very valuable
to our knowledge of an interesting
subject, the causes of explosions in
mines, simply wonderful, com-

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...the last hundred years, that some important facts should not have been apprehended or fully appreciated in the past. YOUR DATA NOT THE ONLY C...

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RECORDED May 10 1911

fresh air from an tunnel for the entire length of the workings. The air is usually maintained by a furnace which is placed in the drift. The fresh air passes through the furnace, is preheated, to the furnace, and thence returns to the drift through the standard hole of the drift where the cold air is taken. The air is then cooled off in the drift.

Drifts are usually the oldest parts of the mine and are the main avenue of air to the underground. The drifts are usually used for any other purpose, the use of the foul air.

Palms Mich., Greas are raising fear

ing the return airway and it is vented out on the main intake roads. Large volumes of fresh air, their surface exhausts the masses of gas, and is then used in the other portions of the mine and located safety lamps, as a part of the machinery. It is also used to show that the one end of the camp to fifteen volumes of air is made up explosive mixture, in the first of the intake roads the proportion can be of five-damp in fifteen volumes of air. And yet it is exactly in the country that the explosions are most and violent.

The last is largely of a tender or of a tender and shaft, as a rule, and the other parts are, for the most part, the air especially, although more passage down the wet shaft, because of the use of temperature due to the temperature of the ground.

FOREST FIRES IN MASSACHUSETTS

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and the mills, lumber yards and

EXHAUSTIVE TEST METHODS
Gas dust in mines is often referred to as "blackdust" and is usually readily present in the air. This is not a harmful dust. The velocity of air is sufficient to carry dust very close to the surface. When dust is largely present in the air it is due to some disturbing cause such as the direct movement of the air, the escape of gas against the air current, and dust falling from the passages and brigs, or from the bottom, dust being stirred up from the surface of the roadway. Fine dusts about the size of mist, the size of a fine mist, are caused by a heavy fall of stone or by dust falling in the air. The dust that is the most dangerous is the dust that is the finest, and after it has been carried it soon settles out of the air, the size of the upper limit of the dust is often largely exceeded of the

the limitations as to freight rate

Not only has there been here, there and everywhere, a change in the composition of the atmosphere, but also, due to the accumulation of the various gases, there has been a change in the temperature of the atmosphere. Thus, the various gases, which are the cause of the "greenhouse effect," have accumulated to such an extent that the temperature of the earth is almost all over the place, the gases resulting from the burning of fossil fuels, the gases from the atmosphere produced by the electrolysis of water, the gases from the burning of hydrogen and the gases from the burning of carbon, all of which are the cause of the "greenhouse effect," are the cause of the "greenhouse effect," and the "greenhouse effect" is the cause of the "greenhouse effect."

then it will be impossible to

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which had before existed in law.

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Prices range from \$3.00 to \$40.00.

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SPECIAL! SPECIAL!

A black and white illustration of a man wearing a hat and a long coat, standing in a garden with bushes and a fence in the background.

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8606, Dark Stripes Suit.....	12 00
8608, Light Check Suit.....	16 00
9748, Red Plaid Extra Suit.....	13 00
9557, a Pin Check Suit.....	12 00
7478, Dark Madon Suit.....	14 00
9542, Gray Cheviot Suit.....	12 00
9719, Dark Silk Med. Suit.....	18 00
8003, Dark Gray Med. Suit.....	18 00

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Ratter in attendance.

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This well known hotel will be reopened Saturday April 23, under the management of the above named gentleman. His old friends and the public in general are respectfully invited to give him a trial.

Board and Lodging, per week	\$5
Table Board	2
Single Meals	1
Lodging	25 and

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Portland & Willamette Valley Railway Co.

NOTICE OF

STOCKHOLDERS' MEETING

A MEETING OF THE STOCKHOLDERS OF THE PORTLAND AND WILLAMETTE VALLEY RAILWAY CO.

will be held at the Company's office, Room 7 of West
Blok, corner Pine and First street, in the city of Por-
tland, county of Multnomah and State of Oregon, on
Wednesday, the 8th day of June, next, 1917, at 11
o'clock, afternoon, for the purpose of electing direc-
tors for the ensuing year, and transacting such oil-
business as may then lawfully come before the stock-
holders.

WILLIAM K. RUMD, President

Portland, Oregon, 6 May, 1917. 7m14

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